

line 3, insert --of Fha-- between "domain" and "homologous".

In claim 7, line 1, delete "characterized in that" and substitute --wherein-- therefor.

In claim 8,

line 1, delete "characterized in that" and substitute --wherein-- therefor ;

line 5, delete "6922" and substitute --6292-- therefor.

In claim 9, lines 1-2, delete "characterized in that it no longer reacts" and substitute --wherein the encoded polypeptide does not react-- therefor.

In claim 10, line 2, delete "characterized in that" and substitute --wherein-- therefor.

In claim 11, line 2, delete "characterized in that" and substitute --wherein-- therefor.

In claim 12,

line 2, delete "characterized in that it also contains" and substitute --wherein said DNA further comprises-- therefor ;

line 4, delete "in question".

In claim 13, line 1, delete "characterized in that" and substitute --wherein-- therefor.

In claim 14, line 2, delete "characterized in that" and substitute --wherein-- therefor.

In claim 15,

line 1, delete "characterized in that" and substitute --wherein-- therefor ;

line 2, delete "in particular *B. pertussis*." ;

lines 2-3, delete "that they are also carriers of" and substitute --carry-- therefor.

In claim 17, line 1, delete "characterized in that its" and substitute --wherein the-- therefor.

In claim 18, lines 1-2, delete "characterized in that" and substitute --wherein-- therefor.

In claim 20, lines 1-2, delete "characterized in that" and substitute --wherein-- therefor.

In claim 22,

line 2, delete "and characterized in that it contains" and substitute --comprising-- therefor ;

line 3, replace "'claim 18" with --claim 14--

In claim 27, line 2, delete "characterized by" and substitute --comprising-- therefor.

In claim 28, line 1, delete "characterized in that" and substitute --wherein-- therefor.

Please add the following new claims:

Sub D3 C2  
 --30 (New) A recombinant DNA encoding a recombinant polypeptide, wherein said recombinant DNA comprises a sequence (1) coding for an antigenic polypeptide or peptide fused in the same reading frame with a sequence (2) placed upstream from said sequence (1), said sequence (2) coding for at least a N-terminal region of the precursor of the Fha which contains the site of interaction of the Fha with heparin, said sequence (2) allowing the recombinant polypeptide, when said recombinant DNA is expressed in a *B. pertussis* cell culture, to be secreted into the culture medium or exposed at the cell surface.